

479578 TO 479583-continued

Aomori-ken, Honshu. Lat 40 deg. 33' N, Long. 140 deg. 58' E. Snow 2-3m; 58 days covered by snow 50cm or deeper. Minimum temperature -20C. Tree deciduous, 3.5-8m tall, divided into main trunks. Bark smooth, light gray. Leaves dark green above with impressed veins; paler with prominent veins beneath. Fruit bright red, glossy. Growing by edge of small lake in marsh. Seed collected from 2 plants. Cultivated. Wild. Seed.

479584 TO 479593. *Sorbus commixta* Hedl. (Rosaceae) Japanese mountain-ash.

From Japan. Collected by Kawase, M.; Nielsen, D.; Meyer, F.; March, S.; Ohio Agricultural Research & Development Center; US National Arboretum; Wooster, Ohio; Washington, D.C.

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479584. JH-55-82. Japan. US National Arboretum. 51073. Collected September 16, 1982. Hokkaido Univ., Uryu Forest, Tokuda (rd no. 40), Nayoro-shi, Hokkaido. Lat. 44 deg. 20' N, Long. 142 deg. 27' E. Snow cover 1.5-2.5m per annum. Minimum temperature -35C. Tree upright, 4.6m tall.

Attractive orange-red berry. Plant originally was wild seedling moved from Univ. forest nearby. Seed from one tree. Cultivated. Seed.

479585. JH-56-82. Japan. US National Arboretum. 51074. Collected September 16, 1982. Hokkaido Univ., Uryu Forest, Tokuda (rd no. 40), Nayoro-shi, Hokkaido. Lat. 44 deg. 20' N, Long. 142 deg. 27' E. Snow cover 1.5-2.5m per annum. Minimum temperature -35C. Tree deciduous, 4.6m tall. Branches many, spreading from near base. Bark smooth, dark brown. Leaves bright green above. Fruit orange-red. Wild seedling moved from Univ. forest nearby. Cultivated. Seed.

479586. JH-71-82. Japan. US National Arboretum. 51090. Collected September 17, 1982. Abashiri National Forest, Urbari, Abashiri-shi, Hokkaido. 230m. Snow cover 50cm or deeper for 20 days. Minimum temperature -29C. Tree deciduous, small, 7.6m tall, multitrunked from base, upright branches. Bark smooth, dark brown. Leaves bright green above, glaucous beneath. Fruit bright orange. Abundant along roadside in woodland in field no. 119. Seed collected from one tree. Wild. Seed.

479587. JH-94-82. Japan. US National Arboretum. 51116. Collected September 19, 1982. S of hwy 344, E of pass toward Lake Rausu, Rausu-cho, Menashi-gun, Hokkaido. 675m. Lat. 44 deg. 03' N, Long. 145 deg. 10' E. Snow cover 1.5m per annum. Minimum temperature -20C. Shrub deciduous, 4.6m